
 CARLO GAVAZZI SPACE SpA		RELAZIONE DI RIUNIONE / VISITA MINUTES OF MEETING / VISIT		N° AMSTCS-MI-CGS-028 FOGLIO 1 DI 8 ANNEX SHEET	
DATA - DATE		LOCALITA' - LOCATION		COMMESSA - JOB	
17/10/2008		CERN		AMS CD 2011 I	
IMPIANTO PROJECT	DESCRIZIONE DESCRIPTION			CLIENTE - CUSTOMER	
	AMS 02 TCS Main and Tracker Radiators (AFE D5 and D6) reception inspection			ASI	
SCOPO RIUNIONE PURPOSE OF MEETING	LOCALITA' LOCATION			ORDINE - CONTRACT	
	CERN			I/008/08/0	
PRESENTI - ATTENDED BY	AMS 02 TCS Main and Tracker Radiators (AFE D5 and D6) reception inspection			REDATTO - WRITTEN BY	
				M.Olivier <i>M. Olivier</i>	
				LISTA DI DISTRIBUZIONE DISTRIBUTION LIST	
				M.Olivier (CGS) ✓ E. Marchetti (ASI)	
	NOMI - NAMES	POSIZIONE - POSITION			
	J. Burger <i>J. Burger</i>	AMS TCS Responsible and AMS PA\QA delegate (AMS coll.)	F. PACCHINI ✓		
	C. Vettore <i>C. Vettore</i>	AMS TCS System engineer (CGS)	M. ZAPPINO ✓		
	A. Dell'Acqua <i>A. Dell'Acqua</i>	Operations Head (CGS)			
	L. Cremonesi <i>L. Cremonesi</i>	AMS TCS PA (CGS)			
PUNTI ITEMS	ARGOMENTI DISCUSSI - DESCRIPTION OF DISCUSSION			AZIONE A CURA ¹⁾ ACTION BY ¹⁾	
1	<p>The Main and Tracker Radiators AFE D5 and D6 reception inspection review took place on October 16th at CERN.</p> <p>The following AFEs of contract ASI I/008/08/0 and related documentation and hardware have been made available for inspection by the Italian Space Agency (ASI) at CERN premises where the AFE items are under AMS collaboration custody :</p> <ul style="list-style-type: none"> D5: Main radiators equipped with heaters, thermostats and connectors, links and brackets D6: Tracker radiators, equipped with heaters, thermostats and connectors, brackets and rods 				
2	<p>Availability of the following AFEs-related hardware and documentation has been checked:</p> <ul style="list-style-type: none"> Reusable transport containers Any special tool and/or jig and GSE needed for their handling and/or integration at System Level Documentation (e.g. ICDs, User's Manual, Installation Procedures, CoC, necessary Licenses etc. and ADP) as per applicable requirements If deemed necessary and in order to support the System level integration schedule, the equipment will be delivered with training and support service of tbd days at CGS premises. 			<p>RICEVUTO IL</p> <p>25 NOV. 2008</p> <p>Commissa <i>Zomi</i></p> <p>Del. copia a: <i>VEDI ELENCO</i></p>	


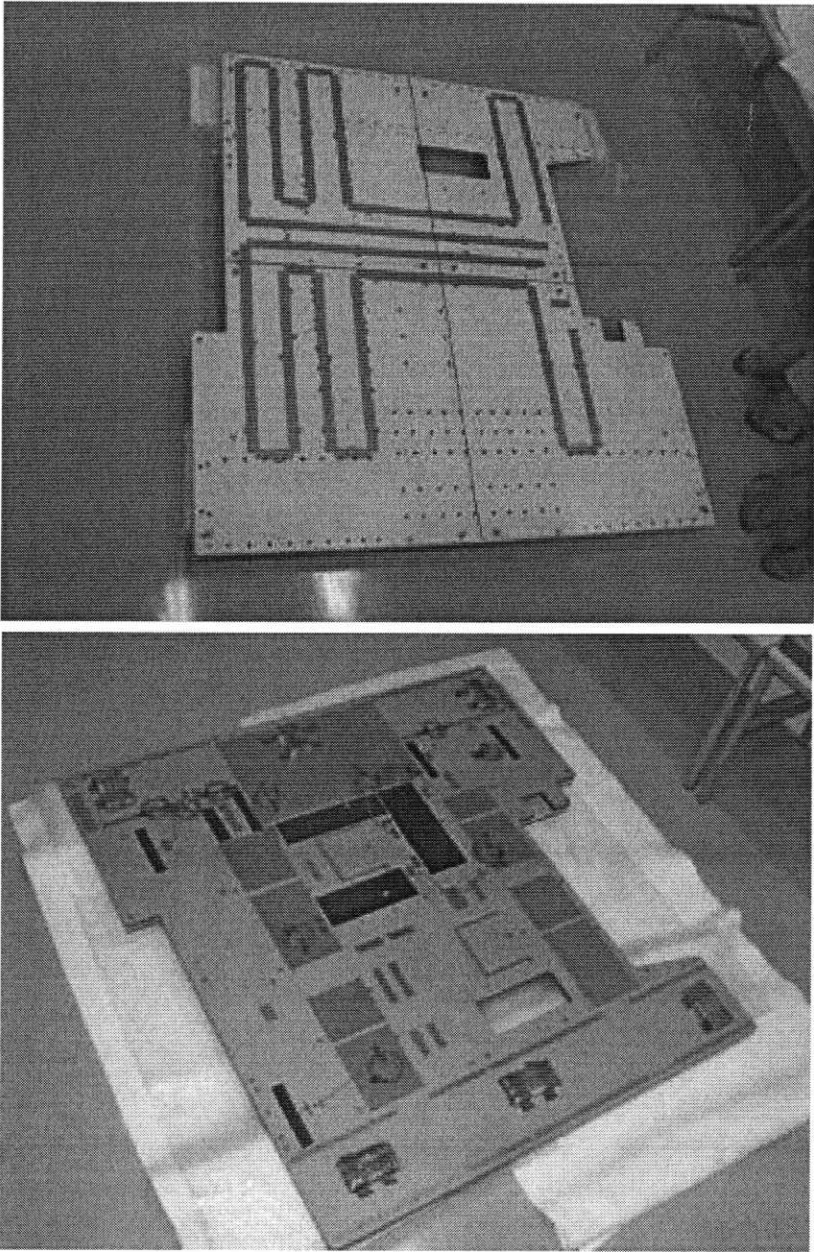
1) INDICARE IL NOMINATIVO RESPONSABILE DELL'AZIONE E DATA DI COMPLETAMENTO

1) ACTUAL PERSON RESPONSIBLE FOR THE ACTION AND COMPLETION DATE SHALL BE SHOWN

 CARLO GAVAZZI SPACE SpA	RELAZIONE DI RIUNIONE / VISITA MINUTES OF MEETING / VISIT		N° AMSTCS-MI-CGS-028 FOGLIO SHEET 2 DI OF 8 ANNEX	
DATA - DATE 17/10/2008	LOCALITA' - LOCATION CERN	COMMESSA - JOB AMS CD 2011 I	RIF. - REF. 2011 I	
PUNTI ITEMS	ARGOMENTI DISCUSSI - DESCRIPTION OF DISCUSSION		AZIONE A CURA ¹⁾ ACTION BY ¹⁾	
3	<p>Inspection have been performed according to the following references and steps :</p> <ol style="list-style-type: none"> incoming inspection according to CGS internal procedure GD-PR-CGS-070. requirements verification according to relevant applicable specification document. <p>AFEs are kept in storage at CERN under AMS collaboration responsibility).CGS, at completion of the reception inspection shall inform ASI of which of the AFE need to be made available at CGS premises by the collaboration to proceed with the activities.</p>			
4	<p>AFE D5 RECEPTION INSPECTION:</p> <p>The available hardware has been inspected and inspection result details shall be collected in a dedicated inspection report (AMSTCS-RP-CGS-007).</p> <p>Summary of Conclusion of the performed inspection is:</p> <p><u>AFE hardware and documentation available for inspection:</u></p> <ul style="list-style-type: none"> Main radiators RAM and WAKE FM hardware equipped with heaters and ADP (21-AMS-000.00.00, 22-AMS-000.00.00): <ul style="list-style-type: none"> During the inspection some points which require a further technical discussion have been found, see AMSTCS-RP-CGS-007 for details. The following NCRs have been issued: <ul style="list-style-type: none"> WAKE RADIATOR 22-AMS-000.00.00 <ul style="list-style-type: none"> NCR-TCS-CGS-C-001 HEATERS DEBONDING NCR-TCS-CGS-C-003 SHARP EDGE NCR-TCS-CGS-C-004 MECHANICAL PARTS NCR-TCS-CGS-C-005 ADPs RAM RADIATOR 21-AMS-000.00.00 <ul style="list-style-type: none"> NCR-TCS-CGS-C-004 MECHANICAL PARTS NCR-TCS-CGS-C-005 ADPs NCR-TCS-CGS-C-006 HEATERS DEBONDING Main Radiators Reusable transport container <ul style="list-style-type: none"> Available. Main Radiators special tool and/or jig and GSE needed for their handling and/or integration at System Level <ul style="list-style-type: none"> No special tools are required. No jig and GSE is currently available. <i>CGS highlight the need to have proper means to handle and install the radiators properly. CGS shall discuss with the Agency and AMS Collaboration the need for special Jigs and/or GSE to allow handling of the FM radiators during Thermal hardware assembly by CGS and during integration into AMS-02.</i> 			


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DATA - DATE 17/10/2008	LOCALITA' - LOCATION CERN	COMMESSA - JOB AMS CD 2011 I	RIF. - REF. 2011 I	
PUNTI ITEMS	ARGOMENTI DISCUSSI - DESCRIPTION OF DISCUSSION		AZIONE A CURA ¹⁾ ACTION BY ¹⁾	
5	<p><u>AFE D5 parts hardware not yet inspected:</u></p> <ul style="list-style-type: none"> • thermostats (available at CERN) • connectors (available at CERN) • links (already installed on Gemini structure) <p>brackets (available at CERN)</p> <p>AFE D5 RECEPTION INSPECTION PICTURES</p>  <p style="text-align: center;">Fig. 1 - WAKE Main Radiator rear and front</p>			


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DATA - DATE 17/10/2008	LOCALITA' - LOCATION CERN	COMMESSA - JOB AMS CD 2011 I	RIF. - REF. 2011 I	
PUNTI ITEMS	ARGOMENTI DISCUSSI - DESCRIPTION OF DISCUSSION <div data-bbox="263 421 1153 1099" data-label="Image"> </div> <div data-bbox="263 1155 1153 1834" data-label="Image"> </div> <div data-bbox="446 1856 943 1892" data-label="Caption"> <p>Fig.2 – RAM Main Radiator rear and front</p> </div>		AZIONE A CURA ¹⁾ ACTION BY ¹⁾	


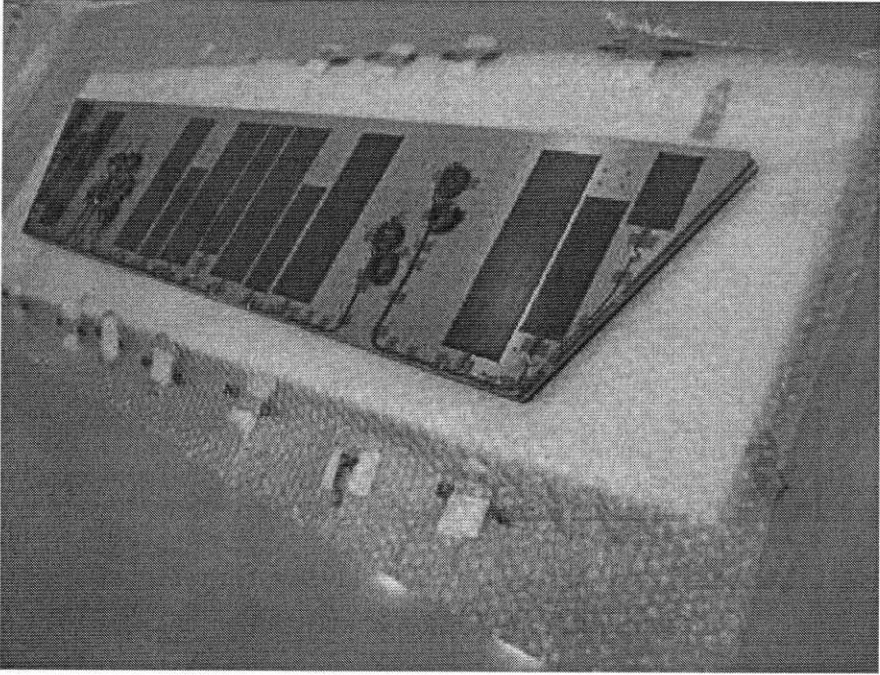
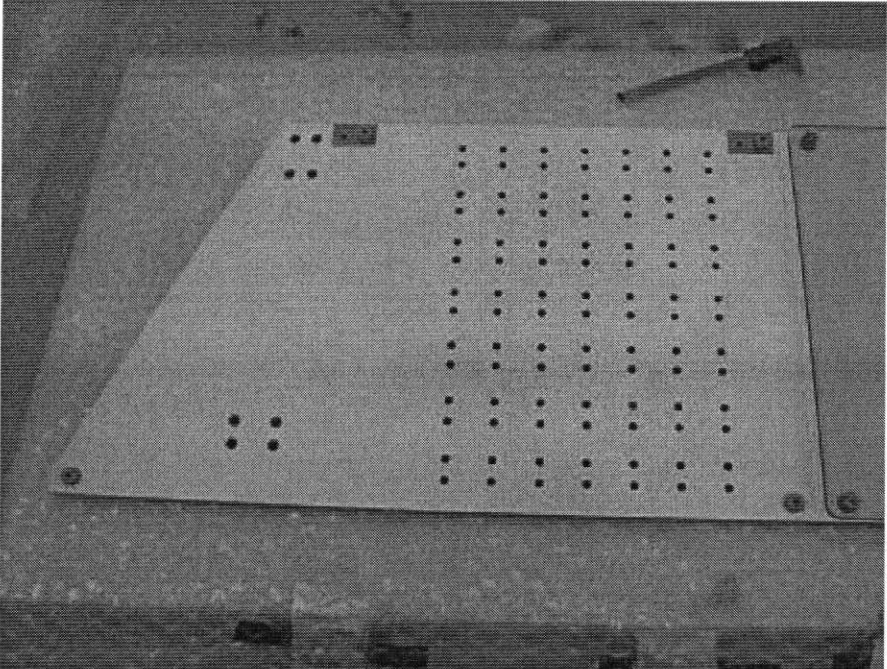
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DATA - DATE 17/10/2008	LOCALITA' - LOCATION CERN	COMMESSA - JOB AMS CD 2011 I	RIF. - REF. 2011 I	
PUNTI ITEMS 5	ARGOMENTI DISCUSSI - DESCRIPTION OF DISCUSSION AFE D6 INCOMING INSPECTION: The available hardware has been inspected and inspection result details shall be collected in a dedicated inspection report (AMSTCS-RP-CGS-007). Summary of Conclusion of the performed inspection is: AFE hardware available for inspection: <ul style="list-style-type: none"> Tracker radiators RAM and WAKE FM hardware equipped with heaters (25-AMS-000.00.00) and documentation: <ul style="list-style-type: none"> During the inspection some points which require a further technical discussion have been found, see AMSTCS-RP-CGS-007 for details. The following NCRs have been issued: TRACKER RADIATOR 25-AMS-000.00.00 <ul style="list-style-type: none"> NCR-TCS-CGS-C-002 SURFACE TREATMENT NCR-TCS-CGS-C-004 MECHANICAL PARTS NCR-TCS-CGS-C-005 ADPs NCR-TCS-CGS-C-007 HEATERS DEBONDING Tracker radiators Reusable transport container <ul style="list-style-type: none"> Available. special tool and/or jig and GSE needed for their handling and/or integration at System Level <ul style="list-style-type: none"> No special tools required. No jig and GSE available. <i>CGS highlight the need to have proper means to handle and install the radiators properly. CGS shall discuss with the Agency and AMS Collaboration the need for special Jigs and/or GSE to allow handling of the FM radiators during Thermal hardware assembly by CGS and during integration into AMS-02.</i> AFE hardware not yet inspected: <ul style="list-style-type: none"> thermostats (available at CERN) connectors (available at CERN) Rods (refurbishment in progress) brackets (available at CERN) 		AZIONE A CURA ¹⁾ ACTION BY ¹⁾	


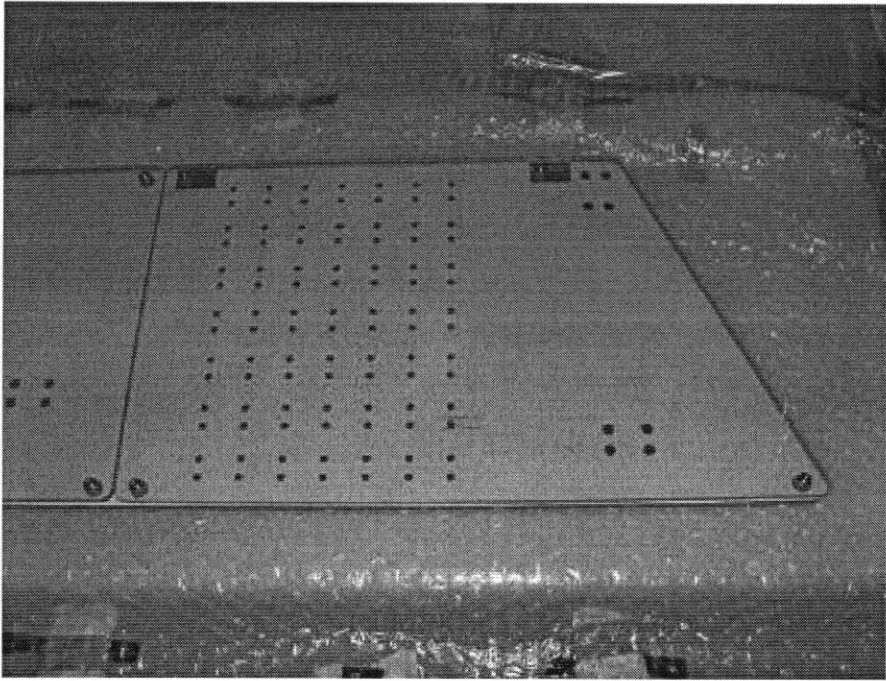
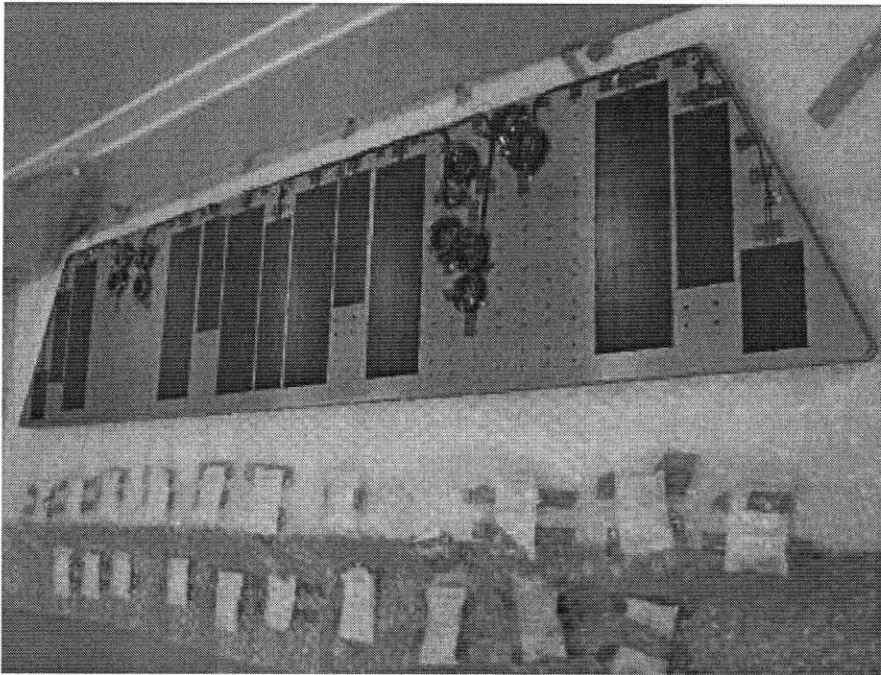
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PUNTI ITEMS	ARGOMENTI DISCUSSI - DESCRIPTION OF DISCUSSION APE D6 RECEPTION INSPECTION PICTURES  		AZIONE A CURA ¹⁾ ACTION BY ¹⁾	


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PUNTI ITEMS	ARGOMENTI DISCUSSI - DESCRIPTION OF DISCUSSION   Fig. 4 – RAM & WAKE Tracker Radiators rear and front		AZIONE A CURA ¹⁾ ACTION BY ¹⁾	

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PUNTI ITEMS 6 7	ARGOMENTI DISCUSSI - DESCRIPTION OF DISCUSSION CONCLUSIONS AND COMMENTS: AMSTCS-RP-CGS-007 which describes the inspection results shall be provide. During the inspection some points which require an enlarged technical discussion have been found. The NCRs issued during the inspection shall be provided to ASI and AMS Collaboration. Related NRBS shall be called with all the parts involved to identify recovery actions. Based on NCRs dispositions and implementation of the resulting recovery actions (if any), the inspection process will be restarted. NOTES: CGS highlights that the inspected hardware is not kept, once re-packed, in a controlled environment, and no specific packing and storage manual instruction is available. CGS, strongly advise: <ul style="list-style-type: none"> • to record Humidity and Temperature during storage • To store the AFE hermetically sealing them according to (as a minimum clean bag sealed with dessicant). • CGS highlights also that handling of the FM HW should be performed as a minimum in accordance to CGS internal procedure PA074. CGS shall provide PA074 to the collaboration		AZIONE A CURA ¹⁾ ACTION BY ¹⁾ AI#1 30/10/2008 - CGS to deliver Inspection Report AI#2 ASAP - CGS to call NRB AI#3 ASAP - CGS to provide PA074 to the collaboration	

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